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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/486,981	02/28/2000	IZUO AOKI	157679	7006
;	7590 07/11/2003			
JOSEPH C MASON MASON & ASSOCIATES 17757 US HWY 19 NORTH			EXAMINER	
			PRICE, ELVIS O	
SUITE 500 CLEARWATER, FL 33764		ART UNIT	PAPER NUMBER	
	,		1621 DATE MAILED: 07/11/2003	70

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/486,981	AOKI ET AL.			
		Examiner	Art Unit			
		Elvis O. Price	1621			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status	Depressive to communication(s) filed on 22 (Anril 2002				
1)⊠	Responsive to communication(s) filed on 22 A					
2a)□	, 	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,12-19 and 28-31</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,12-15 and 28-31</u> is/are rejected.						
7)⊠	Claim(s) <u>16-19</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
· · ·	on Papers					
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
			on No			
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
_a) _ The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>6</u>	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
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DETAILED ACTION

1. Claims 1-4 and 8-27 are pending in the application.

2. Applicants' election, filed 4/22/03, of the clathrate compounds as the species for prosecution on the merits is hereby acknowledge. Applicants' election of the clathrate compounds in Paper No. 19 is acknowledged. Because applicants did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

Claims 16-19 are objected to because of the following informalities: Claims 16-19 depend from claims (8-11) which were previously cancelled by applicants' amendment filed 10/28/02. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Toan et al. {US Pat. 5,509,957}.

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Toan et al. disclose the presently claimed molecular compounds (see Col. 4 and 5, Compound Numbers: 1, 3, 4, 6, 7, 9, 15 and 19-24).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 12-15 and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toan et al. {US Pat. 5,509,957}, in view of Klemm et al. {EP 29990 A1; see English abstract}.

Applicants claim molecular compounds, defined by the phenol derivatives of formulas I, IV, V and VI, wherein the molecular compounds are selected from the group consisting of hydrates, solvates, adducts ad clathrate compounds. Applicants further claim the said molecular compound(s) contains, as constituents, a material that reacts with the phenol derivative to form the said molecular compound selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials, accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants, vulcanization accelerators and organic solvents.

Toan et al. teach water-soluble molecular compounds of formulas I and II, derived from phenol compounds, which encompass the presently claimed molecular compounds (see Col. 1, lines 19-65). Toan et al. teach that their water-soluble

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molecular compounds can be combined with a material that reacts with the phenol compounds to form the said molecular compound(s). The difference between the presently claimed invention and what is taught by the Toan et al. reference is that the Toan et al. reference does not explicitly teach molecular compounds selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials, accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants, vulcanization accelerators or organic solvents. However, Toan et al. teach that the molecular compounds are water-soluble and can be used as agents for coating materials (see Col. 4, lines 41-44 and Col. 7, lines 66-67 thru Col. 8, lines 1-3).

Additionally, Klemm et al. teach a molecular compound (i.e., 2,2'dihydroxy-5,5'-methylene di-(para-toluenesulphonic acid)), which is encompassed by the presently claimed formulas IV and formula II of the Toan et al. reference (see first paragraph of English abstract: compound I). Klemm et al. further teach that their molecular compound and its salts have, inter-alia, astringent, bactericidal, and fungicidal properties (see beginning of second paragraph of English abstract).

It would have been prima facie obvious to one having ordinary skill in the art, in view of the Toan et al. and Klemm et al. references, to arrive at the presently claimed invention because Toan et al. teach water-soluble molecular compounds that encompass the presently claimed compounds and both Toan et al. and Klemm et al. teach that such molecular compounds can be used as agents for coating materials or used as astringent, bactericidal and/or fungicidal agents.

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One having ordinary skill in the art would have been motivated, in view of the Toan et al. and Klemm et al. references, to obtain any and all possible molecular compounds (including positional isomers) encompassed by formulas I and/or II taught by the Toan et al. invention so as to utilized the molecular compounds and their salts as agents for coating materials or as astringent, bactericidal and/or fungicidal agents (as taught by Klemm et al.). Thus, the presently claimed invention would have been obvious to one having ordinary skill in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elvis O. Price whose telephone number is 703 605-1204. The examiner can normally be reached on 8:30 am to 5:00 pm; Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 703 308-4532. The fax phone numbers for the organization where this application or proceeding is assigned is 703 308-4556 for regular communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-1235.

Élvis O. Price